

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B7_5MHz_EIRP

Band: 7 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2502.5	1	0	23.79	0.38	24.17	<=33.01	Pass
			13	23.96	0.38	24.34	<=33.01	Pass
			24	23.84	0.38	24.22	<=33.01	Pass
		12	0	22.79	0.38	23.17	<=33.01	Pass
			6	22.60	0.38	22.98	<=33.01	Pass
			13	22.44	0.38	22.82	<=33.01	Pass
		25	0	22.32	0.38	22.70	<=33.01	Pass
	2535	1	0	23.32	0.38	23.70	<=33.01	Pass
			13	23.41	0.38	23.79	<=33.01	Pass
			24	23.33	0.38	23.71	<=33.01	Pass
		12	0	22.33	0.38	22.71	<=33.01	Pass
			6	22.37	0.38	22.75	<=33.01	Pass
			13	22.38	0.38	22.76	<=33.01	Pass
		25	0	22.35	0.38	22.73	<=33.01	Pass
	2567.5	1	0	23.18	0.38	23.56	<=33.01	Pass
			13	23.31	0.38	23.69	<=33.01	Pass
			24	23.20	0.38	23.58	<=33.01	Pass
		12	0	22.23	0.38	22.61	<=33.01	Pass
			6	22.31	0.38	22.69	<=33.01	Pass
			13	22.26	0.38	22.64	<=33.01	Pass
		25	0	22.24	0.38	22.62	<=33.01	Pass
16QAM	2502.5	1	0	22.36	0.38	22.74	<=33.01	Pass
			13	22.50	0.38	22.88	<=33.01	Pass
			24	22.40	0.38	22.78	<=33.01	Pass
		12	0	21.30	0.38	21.68	<=33.01	Pass
			6	21.39	0.38	21.77	<=33.01	Pass
			13	21.38	0.38	21.76	<=33.01	Pass
		25	0	21.38	0.38	21.76	<=33.01	Pass
	2535	1	0	22.51	0.38	22.89	<=33.01	Pass
			13	22.62	0.38	23.00	<=33.01	Pass
			24	22.51	0.38	22.89	<=33.01	Pass
		12	0	21.39	0.38	21.77	<=33.01	Pass
			6	21.44	0.38	21.82	<=33.01	Pass
			13	21.39	0.38	21.77	<=33.01	Pass
		25	0	21.36	0.38	21.74	<=33.01	Pass
	2567.5	1	0	22.01	0.38	22.39	<=33.01	Pass
			13	22.14	0.38	22.52	<=33.01	Pass
			24	22.02	0.38	22.40	<=33.01	Pass
		12	0	21.21	0.38	21.59	<=33.01	Pass
			6	21.28	0.38	21.66	<=33.01	Pass
			13	21.24	0.38	21.62	<=33.01	Pass
		25	0	21.29	0.38	21.67	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B7_10MHz_EIRP

Band: 7 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2505	1	0	23.42	0.38	23.80	<=33.01	Pass
			25	23.63	0.38	24.01	<=33.01	Pass
			49	23.52	0.38	23.90	<=33.01	Pass
		25	0	22.36	0.38	22.74	<=33.01	Pass
			13	22.45	0.38	22.83	<=33.01	Pass
			25	22.50	0.38	22.88	<=33.01	Pass
		50	0	22.44	0.38	22.82	<=33.01	Pass
	2535	1	0	23.40	0.38	23.78	<=33.01	Pass
			25	23.57	0.38	23.95	<=33.01	Pass
			49	23.41	0.38	23.79	<=33.01	Pass
		25	0	22.44	0.38	22.82	<=33.01	Pass
			13	22.42	0.38	22.80	<=33.01	Pass
			25	22.47	0.38	22.85	<=33.01	Pass
		50	0	22.42	0.38	22.80	<=33.01	Pass
	2565	1	0	23.30	0.38	23.68	<=33.01	Pass
			25	23.46	0.38	23.84	<=33.01	Pass
			49	23.31	0.38	23.69	<=33.01	Pass
		25	0	22.31	0.38	22.69	<=33.01	Pass
			13	22.30	0.38	22.68	<=33.01	Pass
			25	22.32	0.38	22.70	<=33.01	Pass
		50	0	22.30	0.38	22.68	<=33.01	Pass
16QAM	2505	1	0	22.38	0.38	22.76	<=33.01	Pass
			25	22.58	0.38	22.96	<=33.01	Pass
			49	22.46	0.38	22.84	<=33.01	Pass
		25	0	21.46	0.38	21.84	<=33.01	Pass
			13	21.53	0.38	21.91	<=33.01	Pass
			25	21.63	0.38	22.01	<=33.01	Pass
		50	0	21.48	0.38	21.86	<=33.01	Pass
	2535	1	0	22.52	0.38	22.90	<=33.01	Pass
			25	22.70	0.38	23.08	<=33.01	Pass
			49	22.53	0.38	22.91	<=33.01	Pass
		25	0	21.45	0.38	21.83	<=33.01	Pass
			13	21.46	0.38	21.84	<=33.01	Pass
			25	21.50	0.38	21.88	<=33.01	Pass
		50	0	21.45	0.38	21.83	<=33.01	Pass
	2565	1	0	22.73	0.38	23.11	<=33.01	Pass
			25	22.88	0.38	23.26	<=33.01	Pass
			49	22.67	0.38	23.05	<=33.01	Pass
		25	0	21.38	0.38	21.76	<=33.01	Pass
			13	21.35	0.38	21.73	<=33.01	Pass
			25	21.39	0.38	21.77	<=33.01	Pass
		50	0	21.31	0.38	21.69	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B7_15MHz_EIRP

Band: 7 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2507.5	1	0	23.32	0.38	23.70	<=33.01	Pass
			38	23.49	0.38	23.87	<=33.01	Pass
			74	23.39	0.38	23.77	<=33.01	Pass
		36	0	22.41	0.38	22.79	<=33.01	Pass
			18	22.54	0.38	22.92	<=33.01	Pass
			39	22.56	0.38	22.94	<=33.01	Pass
		75	0	22.53	0.38	22.91	<=33.01	Pass
	2535	1	0	23.35	0.38	23.73	<=33.01	Pass
			38	23.45	0.38	23.83	<=33.01	Pass
			74	23.32	0.38	23.70	<=33.01	Pass
		36	0	22.48	0.38	22.86	<=33.01	Pass
			18	22.49	0.38	22.87	<=33.01	Pass
			39	22.53	0.38	22.91	<=33.01	Pass
		75	0	22.48	0.38	22.86	<=33.01	Pass
	2562.5	1	0	23.20	0.38	23.58	<=33.01	Pass
			38	23.32	0.38	23.70	<=33.01	Pass
			74	23.24	0.38	23.62	<=33.01	Pass
		36	0	22.40	0.38	22.78	<=33.01	Pass
			18	22.41	0.38	22.79	<=33.01	Pass
			39	22.38	0.38	22.76	<=33.01	Pass
		75	0	22.38	0.38	22.76	<=33.01	Pass
16QAM	2507.5	1	0	22.60	0.38	22.98	<=33.01	Pass
			38	22.80	0.38	23.18	<=33.01	Pass
			74	22.66	0.38	23.04	<=33.01	Pass
		36	0	21.40	0.38	21.78	<=33.01	Pass
			18	21.53	0.38	21.91	<=33.01	Pass
			39	21.54	0.38	21.92	<=33.01	Pass
		75	0	21.46	0.38	21.84	<=33.01	Pass
	2535	1	0	22.50	0.38	22.88	<=33.01	Pass
			38	22.59	0.38	22.97	<=33.01	Pass
			74	22.45	0.38	22.83	<=33.01	Pass
		36	0	21.46	0.38	21.84	<=33.01	Pass
			18	21.50	0.38	21.88	<=33.01	Pass
			39	21.50	0.38	21.88	<=33.01	Pass
		75	0	21.51	0.38	21.89	<=33.01	Pass
	2562.5	1	0	22.64	0.38	23.02	<=33.01	Pass
			38	22.77	0.38	23.15	<=33.01	Pass
			74	22.61	0.38	22.99	<=33.01	Pass
		36	0	21.40	0.38	21.78	<=33.01	Pass
			18	21.39	0.38	21.77	<=33.01	Pass
			39	21.41	0.38	21.79	<=33.01	Pass
		75	0	21.38	0.38	21.76	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B7_20MHz_EIRP

Band: 7 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2510	1	0	23.10	0.38	23.48	<=33.01	Pass
			50	23.59	0.38	23.97	<=33.01	Pass
			99	23.21	0.38	23.59	<=33.01	Pass
		50	0	22.27	0.38	22.65	<=33.01	Pass
			25	22.40	0.38	22.78	<=33.01	Pass
			50	22.44	0.38	22.82	<=33.01	Pass
		100	0	22.38	0.38	22.76	<=33.01	Pass
	2535	1	0	23.15	0.38	23.53	<=33.01	Pass
			50	23.59	0.38	23.97	<=33.01	Pass
			99	23.19	0.38	23.57	<=33.01	Pass
		50	0	22.37	0.38	22.75	<=33.01	Pass
			25	22.42	0.38	22.80	<=33.01	Pass
			50	22.43	0.38	22.81	<=33.01	Pass
		100	0	22.42	0.38	22.80	<=33.01	Pass
	2560	1	0	23.10	0.38	23.48	<=33.01	Pass
			50	23.50	0.38	23.88	<=33.01	Pass
			99	23.10	0.38	23.48	<=33.01	Pass
		50	0	22.29	0.38	22.67	<=33.01	Pass
			25	22.35	0.38	22.73	<=33.01	Pass
			50	22.26	0.38	22.64	<=33.01	Pass
		100	0	22.33	0.38	22.71	<=33.01	Pass
16QAM	2510	1	0	22.57	0.38	22.95	<=33.01	Pass
			50	23.07	0.38	23.45	<=33.01	Pass
			99	22.69	0.38	23.07	<=33.01	Pass
		50	0	21.29	0.38	21.67	<=33.01	Pass
			25	21.45	0.38	21.83	<=33.01	Pass
			50	21.44	0.38	21.82	<=33.01	Pass
		100	0	21.40	0.38	21.78	<=33.01	Pass
	2535	1	0	22.32	0.38	22.70	<=33.01	Pass
			50	22.73	0.38	23.11	<=33.01	Pass
			99	22.30	0.38	22.68	<=33.01	Pass
		50	0	21.38	0.38	21.76	<=33.01	Pass
			25	21.47	0.38	21.85	<=33.01	Pass
			50	21.46	0.38	21.84	<=33.01	Pass
		100	0	21.44	0.38	21.82	<=33.01	Pass
	2560	1	0	22.28	0.38	22.66	<=33.01	Pass
			50	22.72	0.38	23.10	<=33.01	Pass
			99	22.31	0.38	22.69	<=33.01	Pass
		50	0	21.35	0.38	21.73	<=33.01	Pass
			25	21.35	0.38	21.73	<=33.01	Pass
			50	21.30	0.38	21.68	<=33.01	Pass
		100	0	21.34	0.38	21.72	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2502.5	25	0	20	3.27	-2.317	-0.0009	-2.5 to 2.5	Pass
					3.85	-10.872	-0.0043	-2.5 to 2.5	Pass
					4.43	-2.475	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-21.787	-0.0087	-2.5 to 2.5	Pass
				-20	3.85	-6.995	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-3.147	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-10.643	-0.0043	-2.5 to 2.5	Pass
				10	3.85	-8.912	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-4.320	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-18.411	-0.0074	-2.5 to 2.5	Pass
				50	3.85	-9.770	-0.0039	-2.5 to 2.5	Pass
	2535	25	0	20	3.27	-2.689	-0.0011	-2.5 to 2.5	Pass
					3.85	-7.911	-0.0031	-2.5 to 2.5	Pass
					4.43	-6.738	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	8.039	0.0032	-2.5 to 2.5	Pass
				-20	3.85	-2.475	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-5.021	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-2.103	-0.0008	-2.5 to 2.5	Pass
				10	3.85	5.865	0.0023	-2.5 to 2.5	Pass
				30	3.85	-4.191	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-5.779	-0.0023	-2.5 to 2.5	Pass
				50	3.85	-7.067	-0.0028	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.27	-2.532	-0.0010	-2.5 to 2.5	Pass
					3.85	-8.025	-0.0031	-2.5 to 2.5	Pass
					4.43	-3.920	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-10.042	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	-12.002	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-8.240	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-10.958	-0.0043	-2.5 to 2.5	Pass
				10	3.85	-10.571	-0.0041	-2.5 to 2.5	Pass
				30	3.85	0.901	0.0004	-2.5 to 2.5	Pass
				40	3.85	-2.575	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-2.332	-0.0009	-2.5 to 2.5	Pass
16QAM	2502.5	25	0	20	3.27	-5.250	-0.0021	-2.5 to 2.5	Pass
					3.85	-3.190	-0.0013	-2.5 to 2.5	Pass
					4.43	-14.534	-0.0058	-2.5 to 2.5	Pass
				-30	3.85	-8.984	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	2.418	0.0010	-2.5 to 2.5	Pass
				-10	3.85	-4.721	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-2.131	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-15.464	-0.0062	-2.5 to 2.5	Pass
				30	3.85	-3.576	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-5.965	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-2.317	-0.0009	-2.5 to 2.5	Pass
	2535	25	0	20	3.27	0.443	0.0002	-2.5 to 2.5	Pass
					3.85	5.436	0.0021	-2.5 to 2.5	Pass
					4.43	0.172	0.0001	-2.5 to 2.5	Pass
				-30	3.85	-11.215	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-2.761	-0.0011	-2.5 to 2.5	Pass

				-10	3.85	0.286	0.0001	-2.5 to 2.5	Pass
				0	3.85	-2.761	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-4.134	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-3.276	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-2.189	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-8.769	-0.0035	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.27	-1.788	-0.0007	-2.5 to 2.5	Pass
					3.85	2.718	0.0011	-2.5 to 2.5	Pass
					4.43	-6.008	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-0.629	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-3.204	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-2.403	-0.0009	-2.5 to 2.5	Pass
				0	3.85	2.160	0.0008	-2.5 to 2.5	Pass
				10	3.85	1.488	0.0006	-2.5 to 2.5	Pass
				30	3.85	-4.921	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-7.596	-0.0030	-2.5 to 2.5	Pass
				50	3.85	-11.129	-0.0043	-2.5 to 2.5	Pass

2.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2505	50	0	20	3.27	-9.727	-0.0039	-2.5 to 2.5	Pass
					3.85	2.589	0.0010	-2.5 to 2.5	Pass
					4.43	1.030	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-5.422	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-2.275	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-8.540	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-0.343	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-2.217	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-10.929	-0.0044	-2.5 to 2.5	Pass
				40	3.85	0.730	0.0003	-2.5 to 2.5	Pass
				50	3.85	-2.561	-0.0010	-2.5 to 2.5	Pass
	2535	50	0	20	3.27	-1.059	-0.0004	-2.5 to 2.5	Pass
					3.85	-7.024	-0.0028	-2.5 to 2.5	Pass
					4.43	0.844	0.0003	-2.5 to 2.5	Pass
				-30	3.85	0.701	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-1.502	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-1.531	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-6.924	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-5.651	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-10.171	-0.0040	-2.5 to 2.5	Pass
				40	3.85	0.887	0.0003	-2.5 to 2.5	Pass
				50	3.85	-7.067	-0.0028	-2.5 to 2.5	Pass
	2565	50	0	20	3.27	-7.210	-0.0028	-2.5 to 2.5	Pass
					3.85	-2.818	-0.0011	-2.5 to 2.5	Pass
					4.43	-4.807	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-1.702	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-7.753	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-10.314	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-7.696	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-4.849	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-12.717	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-13.447	-0.0052	-2.5 to 2.5	Pass
				50	3.85	-11.501	-0.0045	-2.5 to 2.5	Pass
16QAM	2505	50	0	20	3.27	-2.847	-0.0011	-2.5 to 2.5	Pass
					3.85	-1.688	-0.0007	-2.5 to 2.5	Pass
					4.43	-5.679	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-8.626	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-1.559	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-0.157	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-10.228	-0.0041	-2.5 to 2.5	Pass
				10	3.85	-6.037	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-3.877	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-0.715	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.100	0.0000	-2.5 to 2.5	Pass
	2535	50	0	20	3.27	-8.984	-0.0035	-2.5 to 2.5	Pass
					3.85	-6.795	-0.0027	-2.5 to 2.5	Pass
					4.43	-3.276	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-13.390	-0.0053	-2.5 to 2.5	Pass
				-20	3.85	-12.259	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-3.891	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-12.975	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-10.729	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-4.992	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-7.253	-0.0029	-2.5 to 2.5	Pass

	2565	50	0	50	3.85	4.292	0.0017	-2.5 to 2.5	Pass
				20	3.27	-2.160	-0.0008	-2.5 to 2.5	Pass
					3.85	-3.004	-0.0012	-2.5 to 2.5	Pass
					4.43	-2.904	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-2.046	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-10.443	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-5.221	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-2.074	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-4.106	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-9.685	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-9.527	-0.0037	-2.5 to 2.5	Pass
				50	3.85	0.515	0.0002	-2.5 to 2.5	Pass

2.1.3 B7_15MHz

Band: 7 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2507.5	75	0	20	3.27	-5.693	-0.0023	-2.5 to 2.5	Pass
					3.85	-5.836	-0.0023	-2.5 to 2.5	Pass
					4.43	-4.907	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-2.174	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-5.078	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				0	3.85	0.901	0.0004	-2.5 to 2.5	Pass
				10	3.85	-3.304	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-2.875	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-4.749	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-7.496	-0.0030	-2.5 to 2.5	Pass
	2535	75	0	20	3.27	-7.968	-0.0031	-2.5 to 2.5	Pass
					3.85	-1.502	-0.0006	-2.5 to 2.5	Pass
					4.43	-5.293	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-5.236	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-8.597	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-2.975	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-3.262	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-6.638	-0.0026	-2.5 to 2.5	Pass
				30	3.85	-14.348	-0.0057	-2.5 to 2.5	Pass
				40	3.85	-7.396	-0.0029	-2.5 to 2.5	Pass
				50	3.85	-13.204	-0.0052	-2.5 to 2.5	Pass
	2562.5	75	0	20	3.27	-5.794	-0.0023	-2.5 to 2.5	Pass
					3.85	-2.933	-0.0011	-2.5 to 2.5	Pass
					4.43	1.245	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-4.835	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	2.117	0.0008	-2.5 to 2.5	Pass
				-10	3.85	-10.757	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-1.874	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-4.735	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-8.855	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-1.888	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
16QAM	2507.5	75	0	20	3.27	-4.649	-0.0019	-2.5 to 2.5	Pass
					3.85	3.948	0.0016	-2.5 to 2.5	Pass
					4.43	-1.974	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-1.473	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-10.157	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-2.818	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-3.362	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-5.422	-0.0022	-2.5 to 2.5	Pass
				30	3.85	2.131	0.0008	-2.5 to 2.5	Pass
				40	3.85	-1.788	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-8.612	-0.0034	-2.5 to 2.5	Pass
	2535	75	0	20	3.27	-11.873	-0.0047	-2.5 to 2.5	Pass
					3.85	-4.792	-0.0019	-2.5 to 2.5	Pass
					4.43	-10.643	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-1.516	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-6.566	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-4.034	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-2.890	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-1.016	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-7.753	-0.0031	-2.5 to 2.5	Pass
				40	3.85	-4.535	-0.0018	-2.5 to 2.5	Pass

				50	3.85	-3.033	-0.0012	-2.5 to 2.5	Pass
	2562.5	75	0	20	3.27	-4.764	-0.0019	-2.5 to 2.5	Pass
					3.85	0.114	0.0000	-2.5 to 2.5	Pass
					4.43	-9.112	-0.0036	-2.5 to 2.5	Pass
					-30	3.85	-4.792	-0.0019	-2.5 to 2.5
				-20	3.85	-9.956	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-0.515	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-1.574	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-7.625	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-13.390	-0.0052	-2.5 to 2.5	Pass
				40	3.85	-13.976	-0.0055	-2.5 to 2.5	Pass
				50	3.85	-3.633	-0.0014	-2.5 to 2.5	Pass

2.1.4 B7_20MHz

Band: 7 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2510	100	0	20	3.27	-9.441	-0.0038	-2.5 to 2.5	Pass
					3.85	-4.077	-0.0016	-2.5 to 2.5	Pass
					4.43	1.802	0.0007	-2.5 to 2.5	Pass
				-30	3.85	-8.140	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	0.300	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.701	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-7.510	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-1.602	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-2.675	-0.0011	-2.5 to 2.5	Pass
				40	3.85	3.133	0.0012	-2.5 to 2.5	Pass
				50	3.85	-3.018	-0.0012	-2.5 to 2.5	Pass
	2535	100	0	20	3.27	-3.147	-0.0012	-2.5 to 2.5	Pass
					3.85	-7.610	-0.0030	-2.5 to 2.5	Pass
					4.43	-0.815	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-1.945	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-13.046	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-10.386	-0.0041	-2.5 to 2.5	Pass
				0	3.85	0.129	0.0001	-2.5 to 2.5	Pass
				10	3.85	-8.740	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-3.905	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-9.155	-0.0036	-2.5 to 2.5	Pass
				50	3.85	-11.644	-0.0046	-2.5 to 2.5	Pass
	2560	100	0	20	3.27	-4.849	-0.0019	-2.5 to 2.5	Pass
					3.85	-1.545	-0.0006	-2.5 to 2.5	Pass
					4.43	-15.478	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	0.257	0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-4.392	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-6.280	-0.0025	-2.5 to 2.5	Pass
				10	3.85	-7.911	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-11.001	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-5.407	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-5.307	-0.0021	-2.5 to 2.5	Pass
16QAM	2510	100	0	20	3.27	-1.645	-0.0007	-2.5 to 2.5	Pass
					3.85	0.300	0.0001	-2.5 to 2.5	Pass
					4.43	0.916	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-1.531	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-8.969	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	-7.453	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-4.120	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-2.146	-0.0009	-2.5 to 2.5	Pass
				30	3.85	0.458	0.0002	-2.5 to 2.5	Pass
				40	3.85	-7.739	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-7.367	-0.0029	-2.5 to 2.5	Pass
	2535	100	0	20	3.27	-8.283	-0.0033	-2.5 to 2.5	Pass
					3.85	-12.746	-0.0050	-2.5 to 2.5	Pass
					4.43	-8.068	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-5.894	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-5.751	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-1.059	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-2.546	-0.0010	-2.5 to 2.5	Pass
				10	3.85	1.502	0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.744	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-1.345	-0.0005	-2.5 to 2.5	Pass

	2560	100	0	50	3.85	-7.410	-0.0029	-2.5 to 2.5	Pass
				20	3.27	-5.636	-0.0022	-2.5 to 2.5	Pass
					3.85	-10.242	-0.0040	-2.5 to 2.5	Pass
					4.43	-4.506	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-6.638	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-7.467	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-7.825	-0.0031	-2.5 to 2.5	Pass
				0	3.85	-5.236	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-7.911	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-10.185	-0.0040	-2.5 to 2.5	Pass
				40	3.85	0.343	0.0001	-2.5 to 2.5	Pass
				50	3.85	-2.847	-0.0011	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	25	0	Refer To Test Graph		Pass
16QAM	2535	25	0	Refer To Test Graph		Pass

3.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	50	0	Refer To Test Graph		Pass
16QAM	2535	50	0	Refer To Test Graph		Pass

3.1.3 B7_15MHz

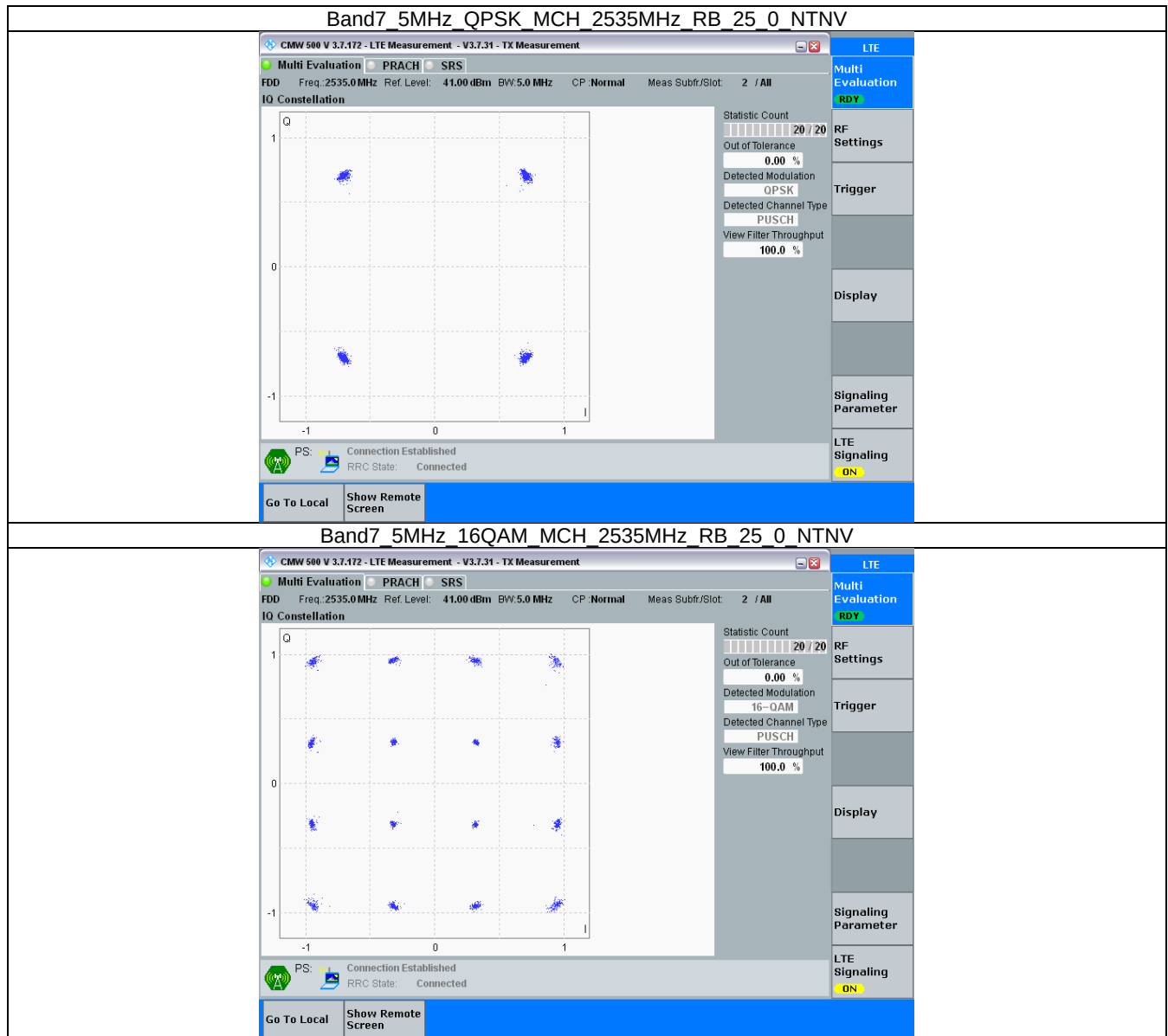
Band: 7 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	75	0	Refer To Test Graph		Pass
16QAM	2535	75	0	Refer To Test Graph		Pass

3.1.4 B7_20MHz

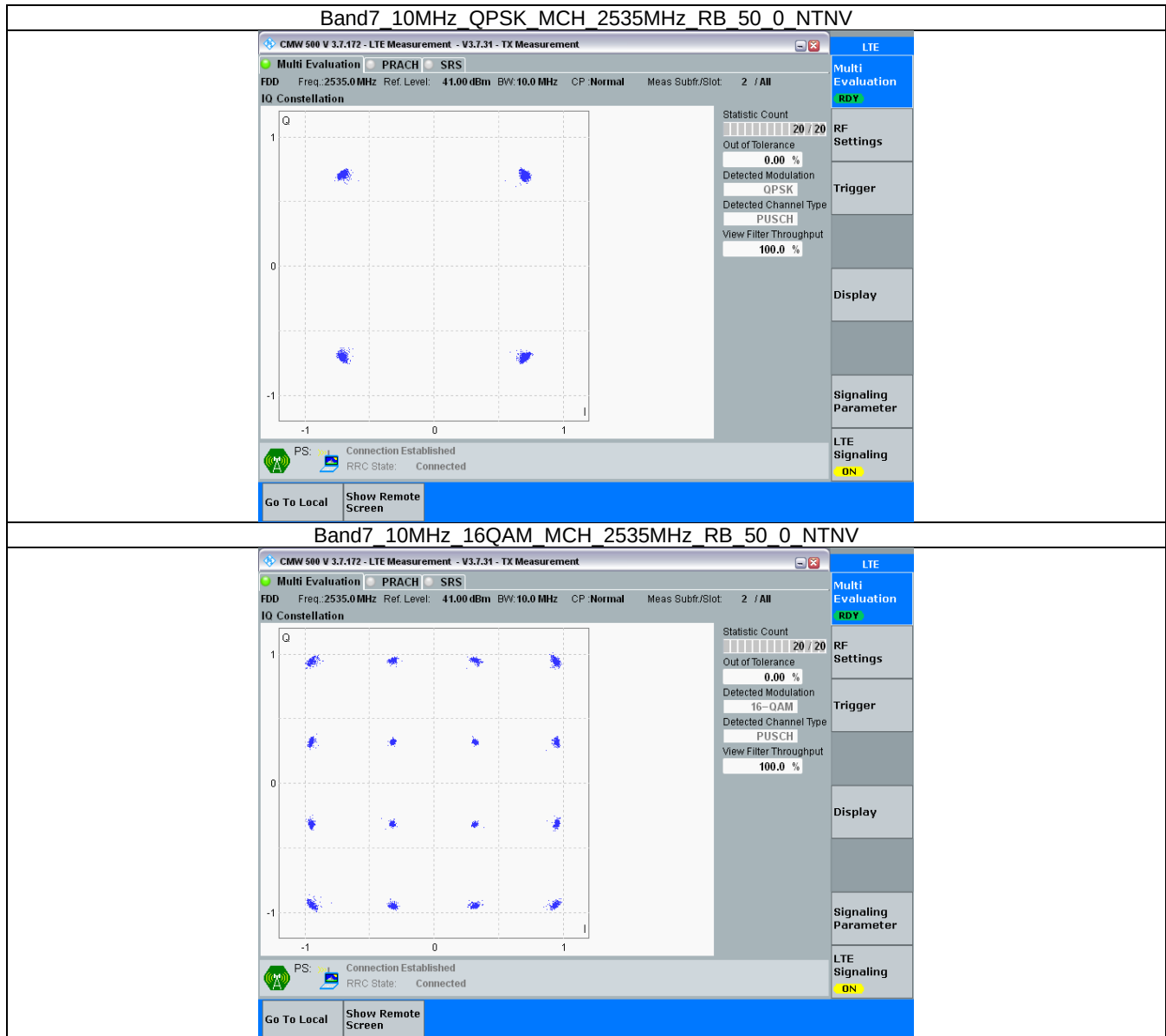
Band: 7 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	Refer To Test Graph		Pass
16QAM	2535	100	0	Refer To Test Graph		Pass

3.2 Test Graph

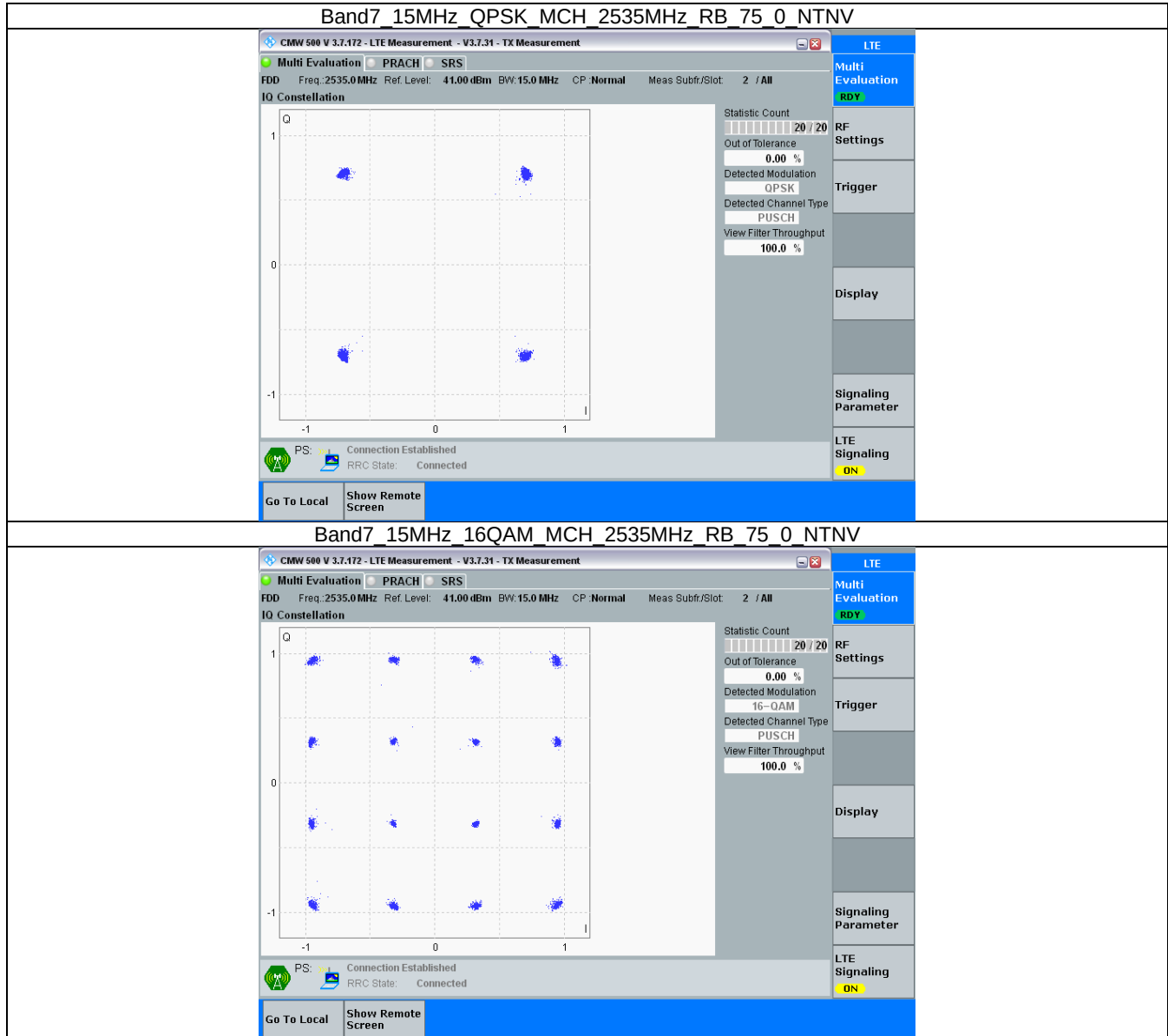
3.2.1 B7_5MHz



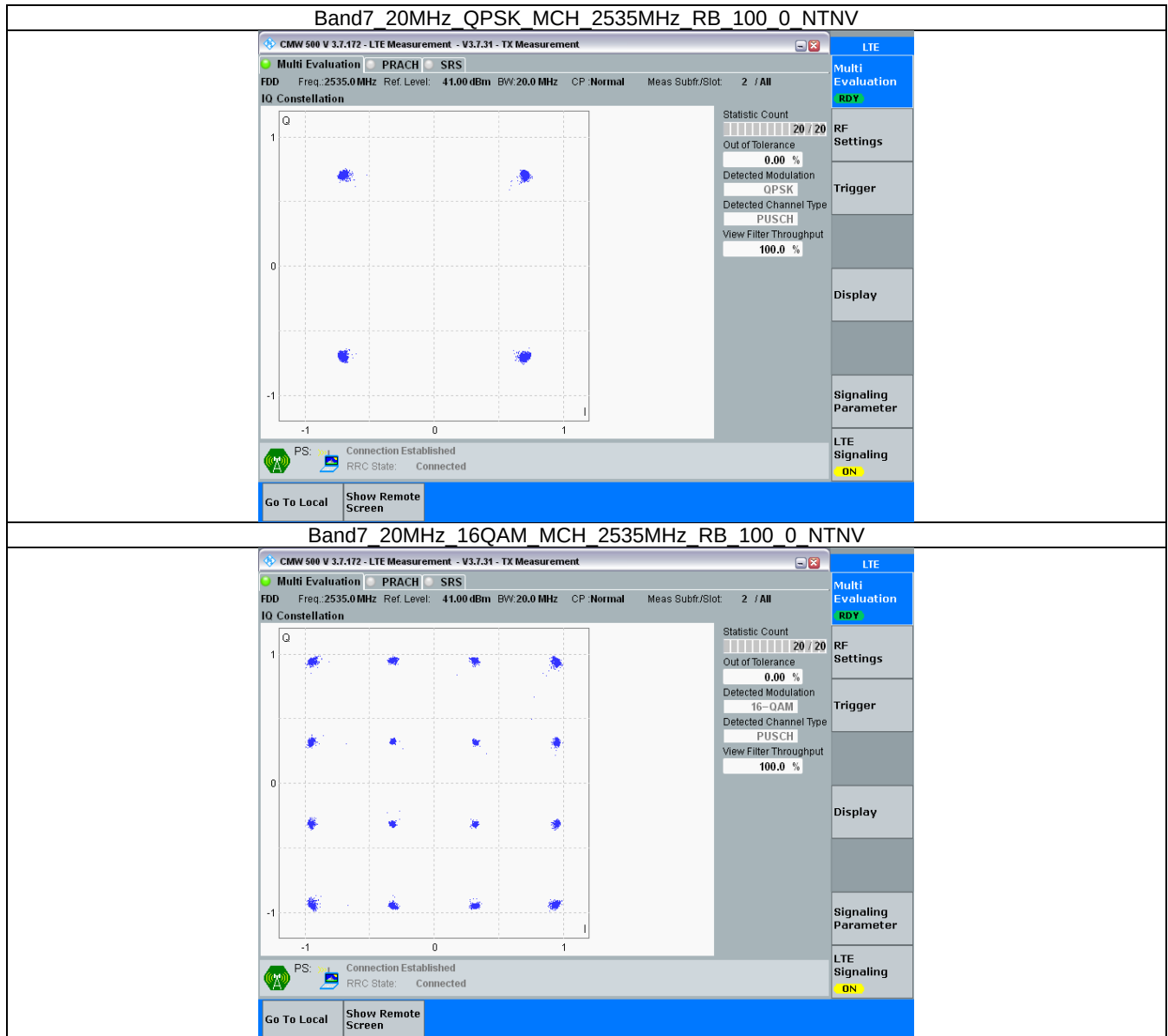
3.2.2 B7_10MHz



3.2.3 B7_15MHz



3.2.4 B7_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band7_OBW

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	4.542	/	Pass
		2535	25	0	4.540	/	Pass
		2567.5	25	0	4.560	/	Pass
	16QAM	2502.5	25	0	4.537	/	Pass
		2535	25	0	4.562	/	Pass
		2567.5	25	0	4.527	/	Pass
10	QPSK	2505	50	0	9.077	/	Pass
		2535	50	0	9.075	/	Pass
		2565	50	0	9.056	/	Pass
	16QAM	2505	50	0	9.064	/	Pass
		2535	50	0	9.047	/	Pass
		2565	50	0	9.042	/	Pass
15	QPSK	2507.5	75	0	13.578	/	Pass
		2535	75	0	13.597	/	Pass
		2562.5	75	0	13.572	/	Pass
	16QAM	2507.5	75	0	13.580	/	Pass
		2535	75	0	13.609	/	Pass
		2562.5	75	0	13.612	/	Pass
20	QPSK	2510	100	0	18.099	/	Pass
		2535	100	0	18.132	/	Pass
		2560	100	0	18.124	/	Pass
	16QAM	2510	100	0	18.077	/	Pass
		2535	100	0	18.104	/	Pass
		2560	100	0	18.176	/	Pass

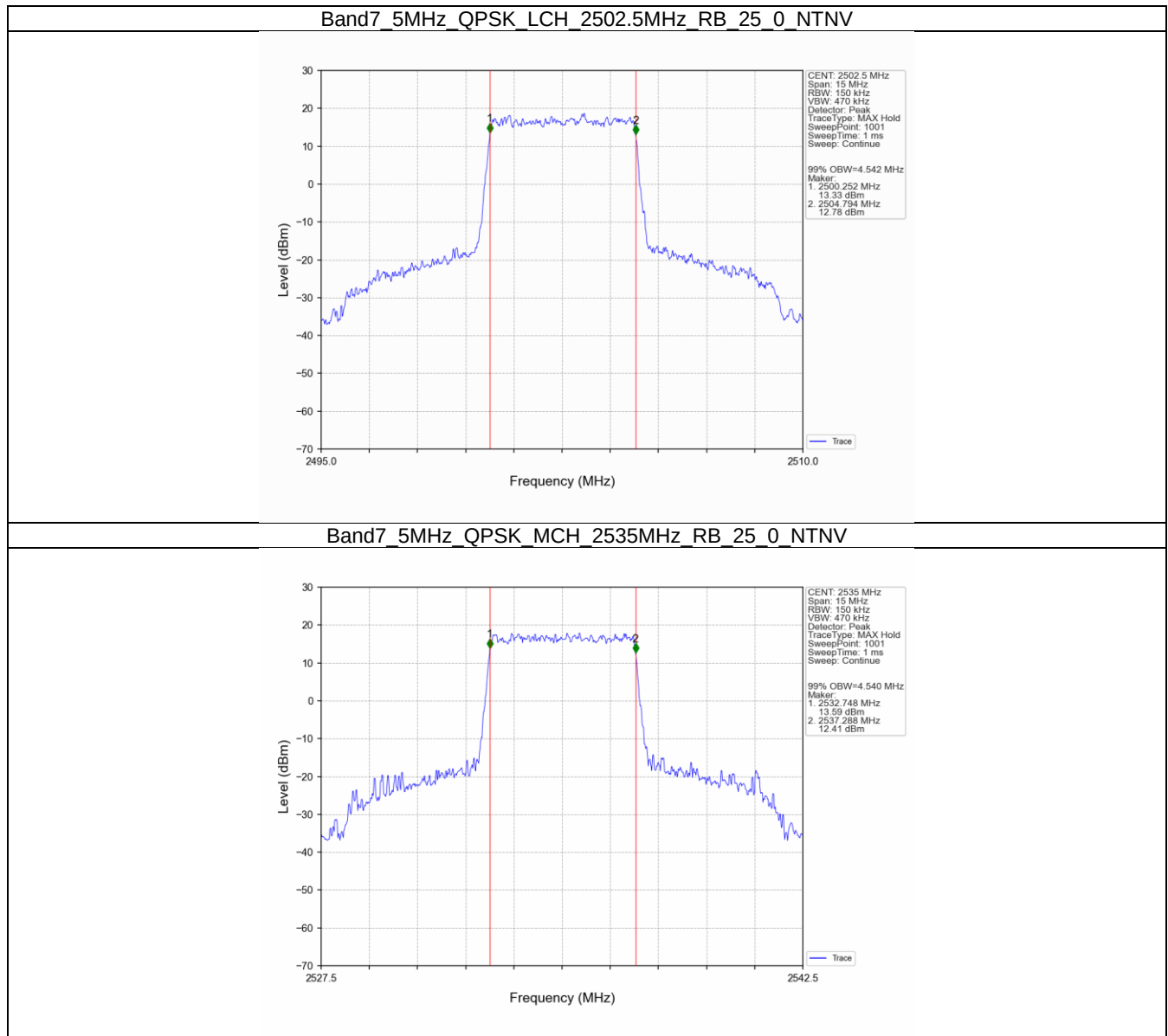
4.1.2 Band7_XDB

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.042	/	Pass
		2535	25	0	5.030	/	Pass
		2567.5	25	0	5.274	/	Pass
	16QAM	2502.5	25	0	5.039	/	Pass
		2535	25	0	5.034	/	Pass
		2567.5	25	0	5.021	/	Pass
10	QPSK	2505	50	0	11.176	/	Pass
		2535	50	0	9.896	/	Pass
		2565	50	0	9.999	/	Pass
	16QAM	2505	50	0	9.945	/	Pass
		2535	50	0	9.980	/	Pass
		2565	50	0	9.891	/	Pass
15	QPSK	2507.5	75	0	14.921	/	Pass
		2535	75	0	14.983	/	Pass
		2562.5	75	0	15.118	/	Pass
	16QAM	2507.5	75	0	14.918	/	Pass
		2535	75	0	14.830	/	Pass
		2562.5	75	0	14.872	/	Pass
20	QPSK	2510	100	0	19.754	/	Pass

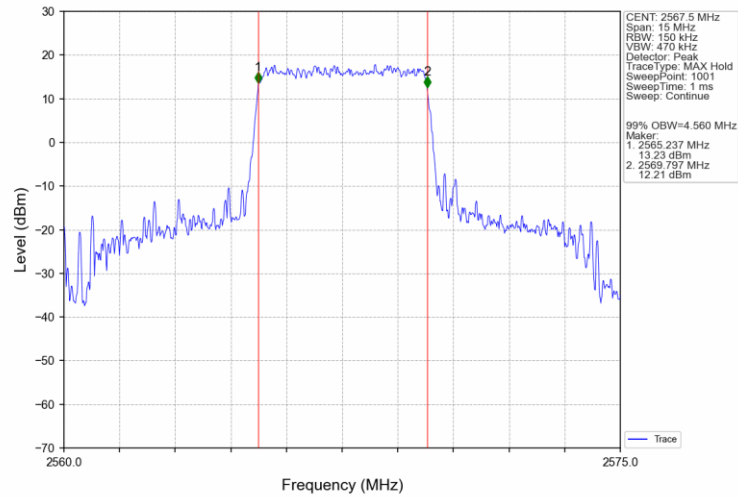
		2535	100	0	19.668	/	Pass
		2560	100	0	22.832	/	Pass
	16QAM	2510	100	0	19.775	/	Pass
		2535	100	0	19.759	/	Pass
		2560	100	0	19.707	/	Pass

4.2 Test Graph

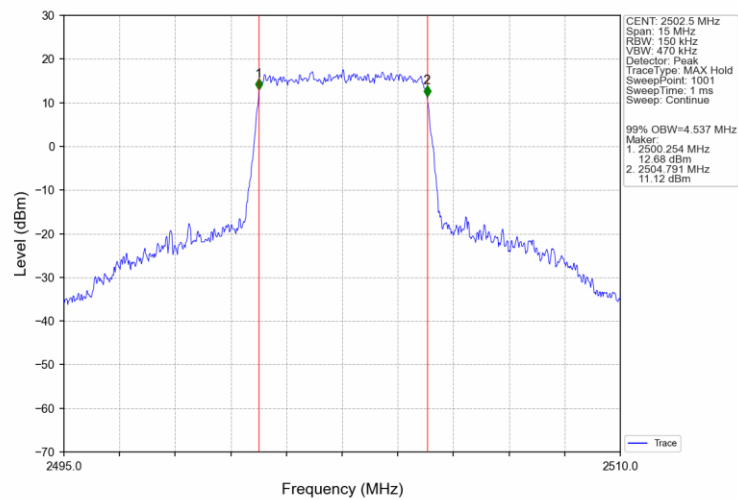
4.2.1 Band7_OBW



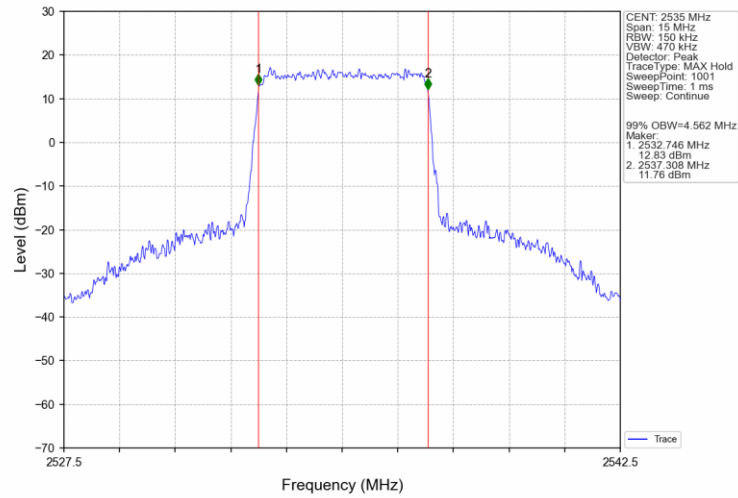
Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTV



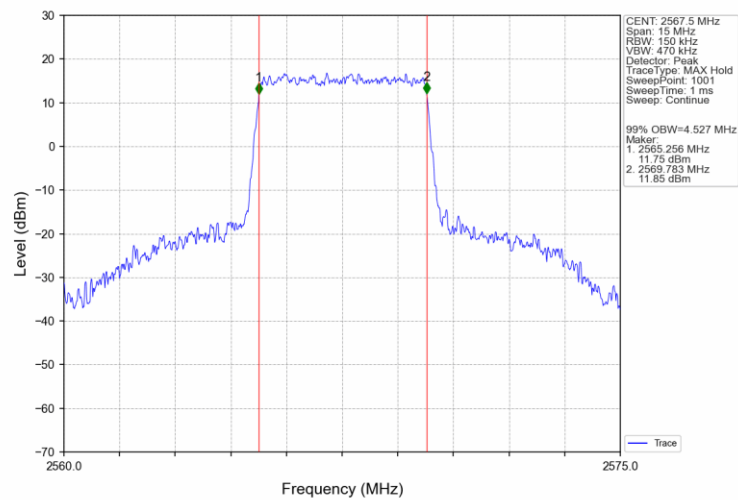
Band7 5MHz 16QAM LCH 2502.5MHz RB 25 0 NTV



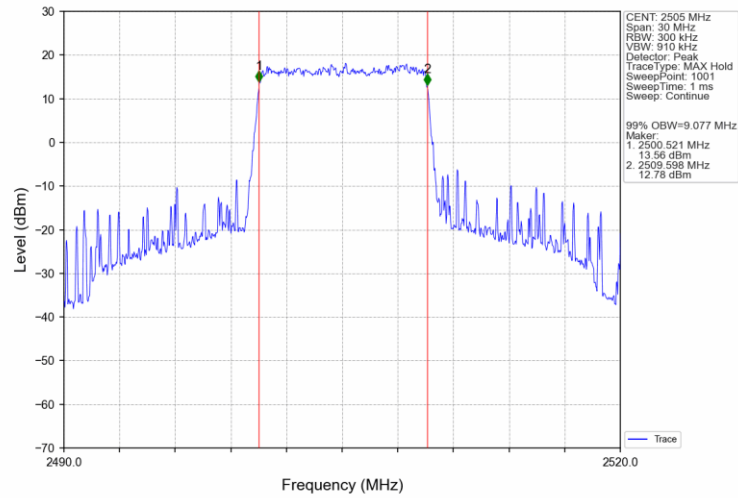
Band7 5MHz 16QAM MCH 2535MHz RB 25 0 NTV



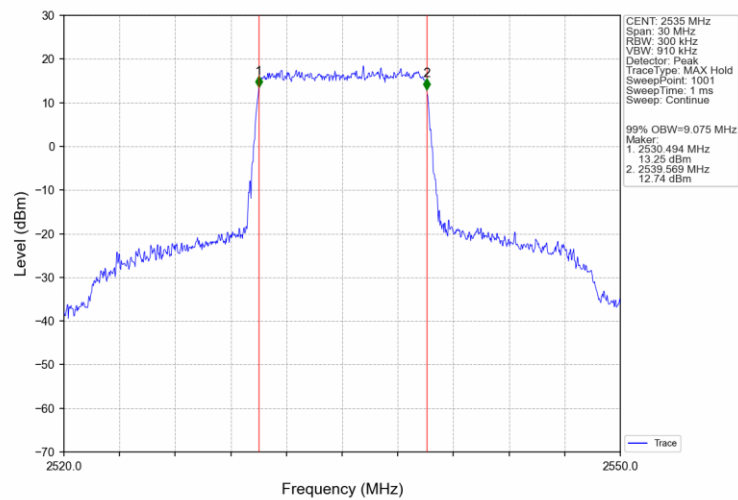
Band7 5MHz 16QAM HCH 2567.5MHz RB 25 0 NTV



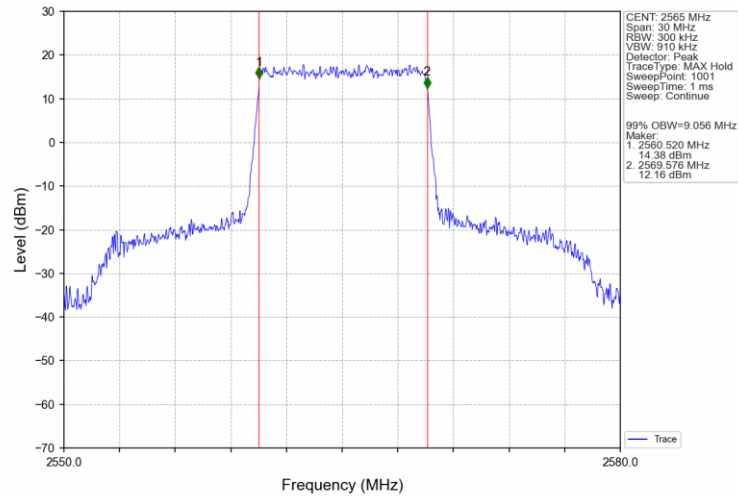
Band7 10MHz QPSK LCH 2505MHz RB 50 0 NTNV



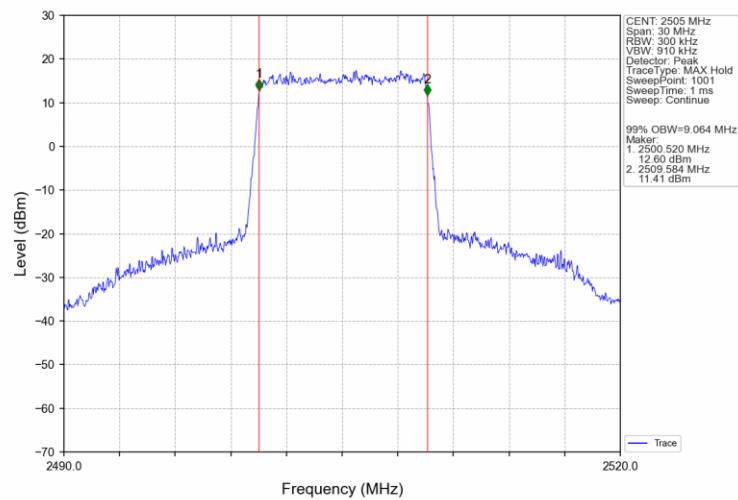
Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTNV



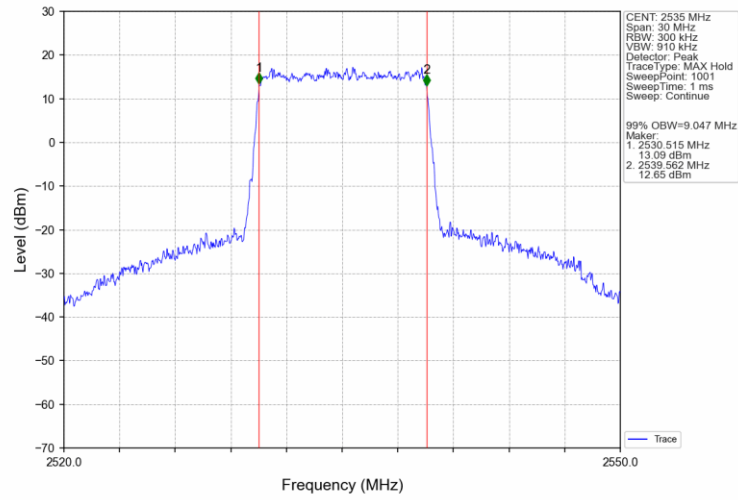
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



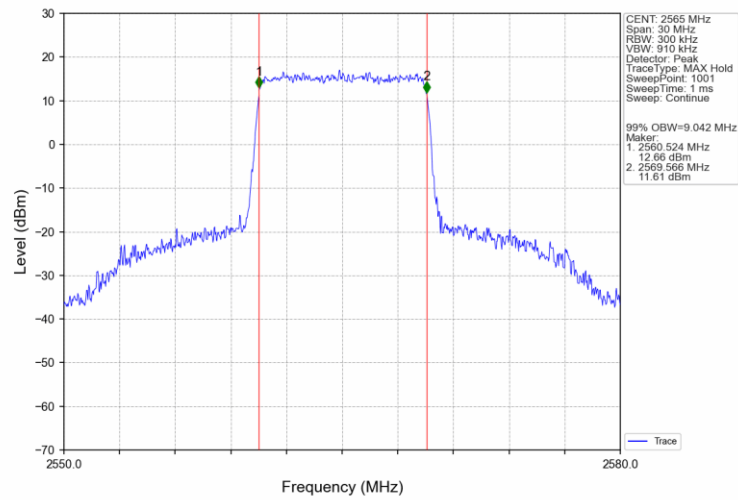
Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



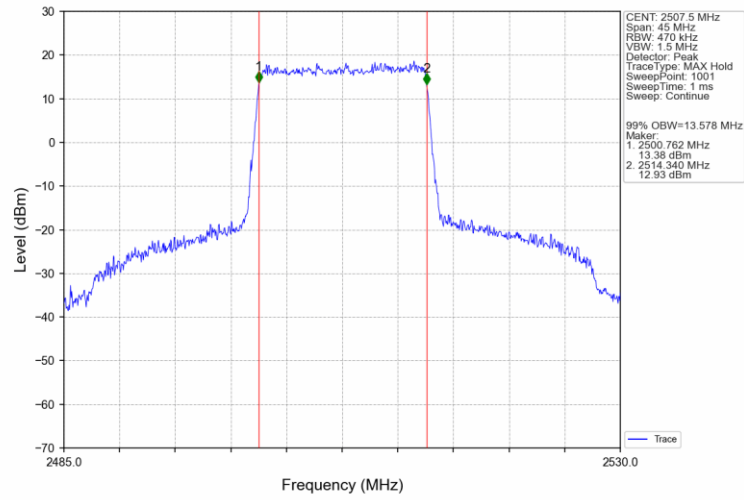
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



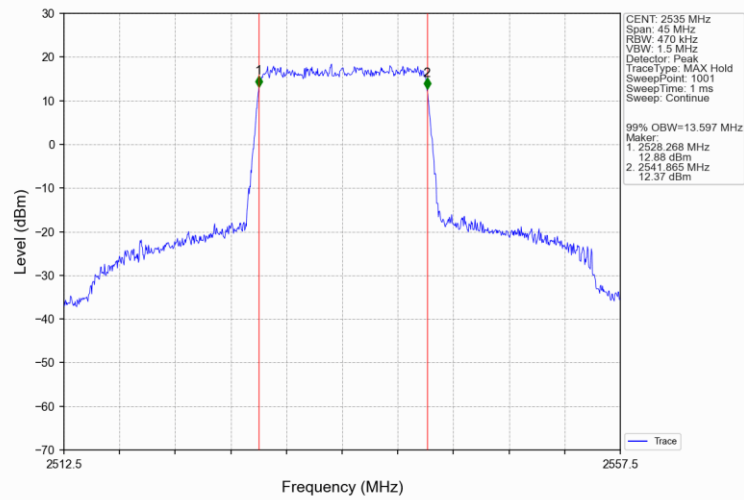
Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



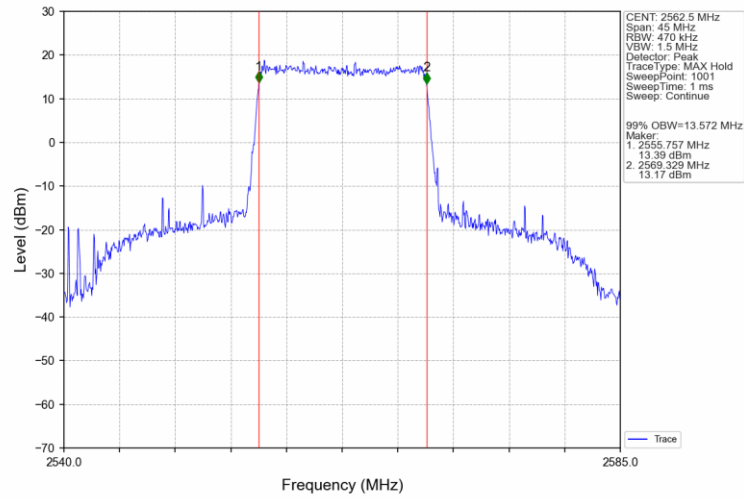
Band7 15MHz QPSK LCH 2507.5MHz RB 75 0 NTNV



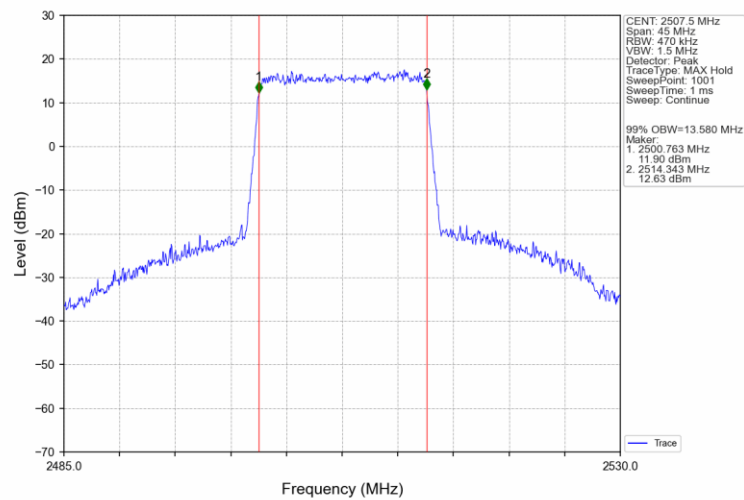
Band7 15MHz QPSK MCH 2535MHz RB 75 0 NTNV



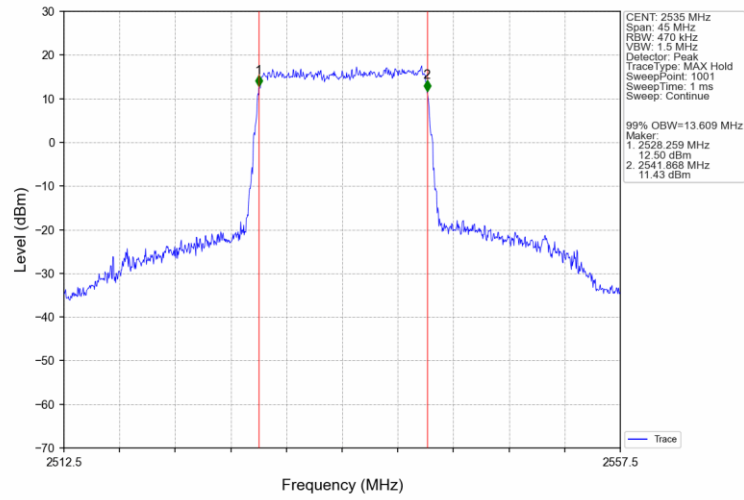
Band7 15MHz QPSK HCH 2562.5MHz RB 75 0 NTNV



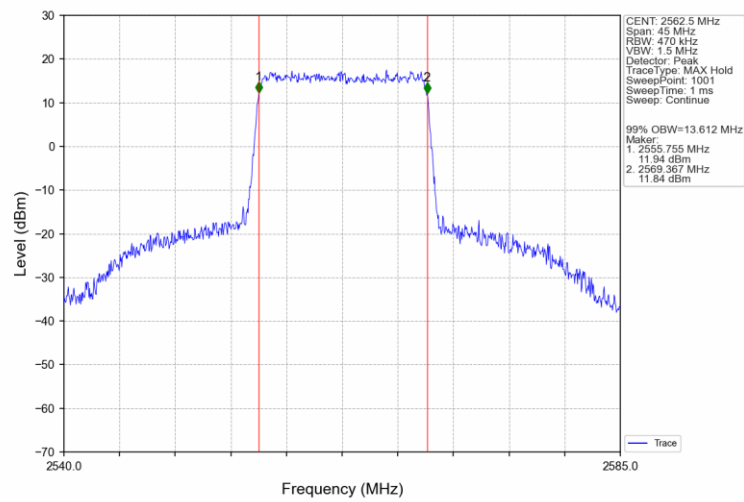
Band7 15MHz 16QAM LCH 2507.5MHz RB 75 0 NTNV



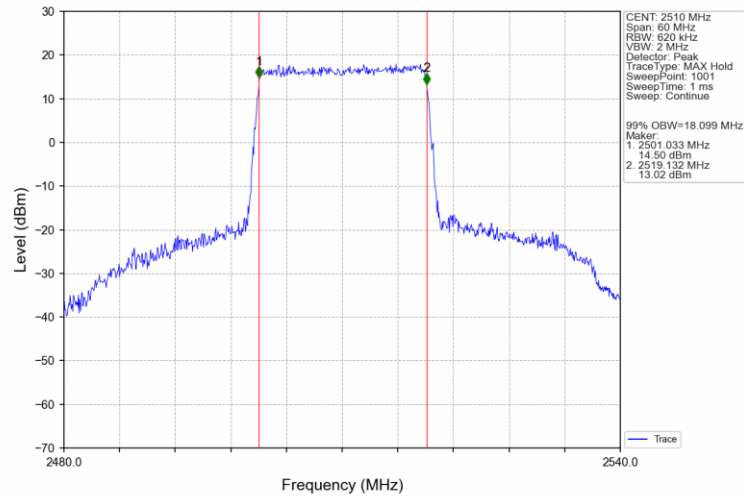
Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTNV



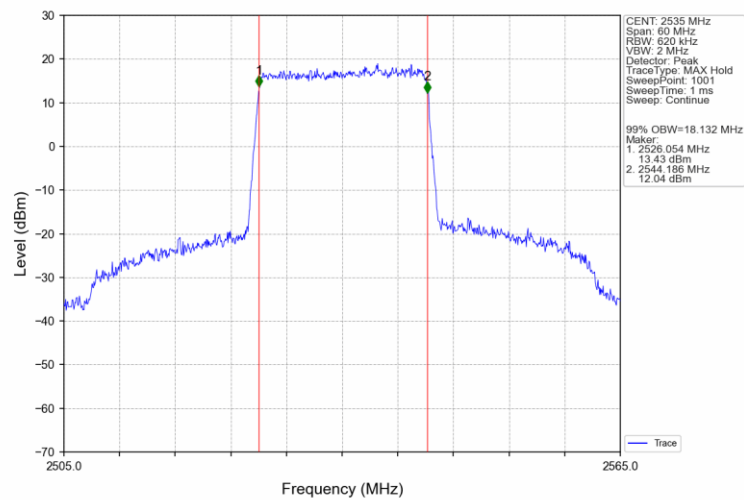
Band7 15MHz 16QAM HCH 2562.5MHz RB 75 0 NTNV



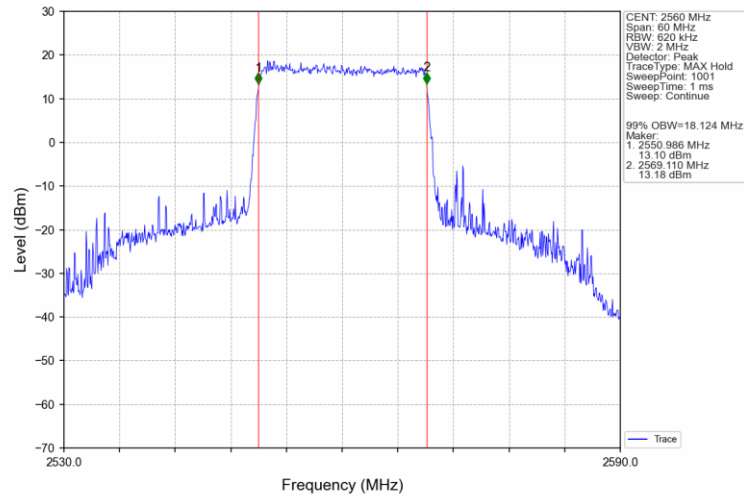
Band7 20MHz QPSK LCH 2510MHz RB 100 0 NTNV



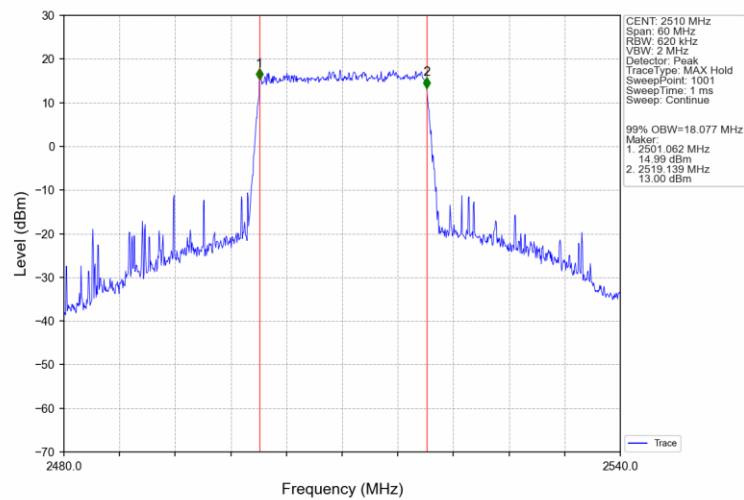
Band7 20MHz QPSK MCH 2535MHz RB 100 0 NTNV



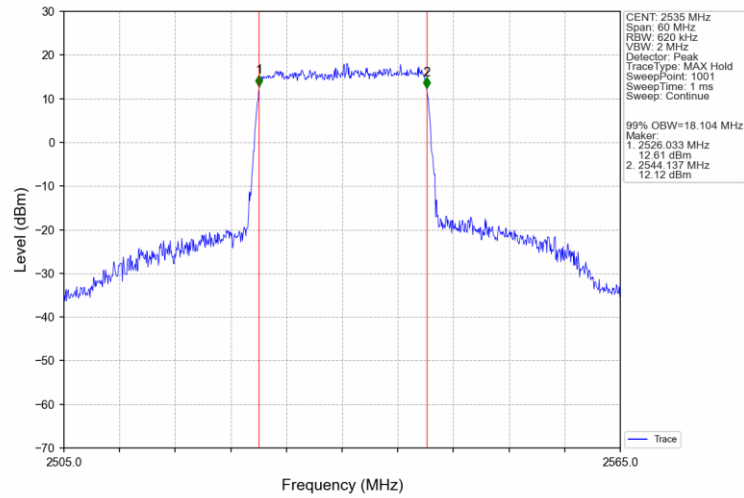
Band7 20MHz QPSK HCH 2560MHz RB 100 0 NTV



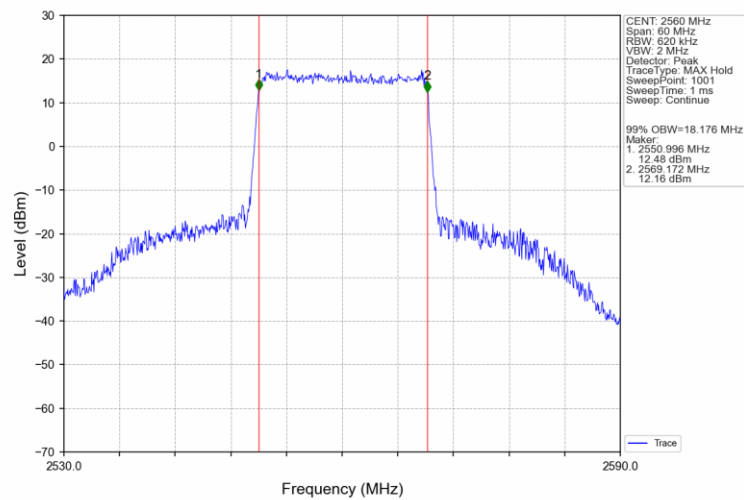
Band7 20MHz 16QAM LCH 2510MHz RB 100 0 NTV



Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTN

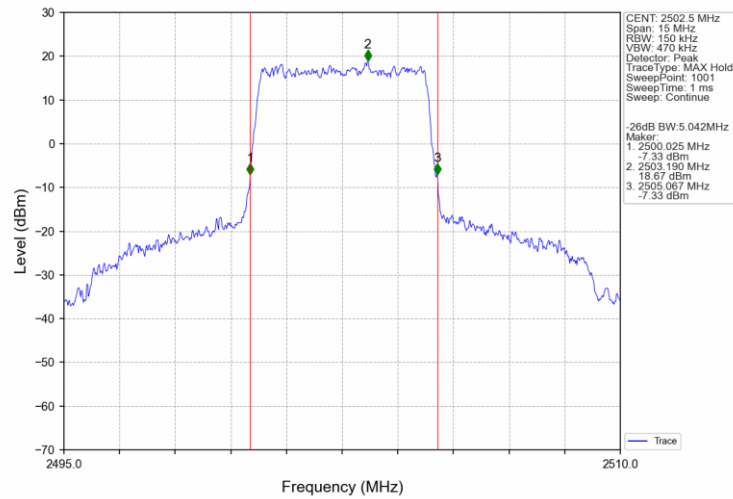


Band7 20MHz 16QAM HCH 2560MHz RB 100 0 NTN

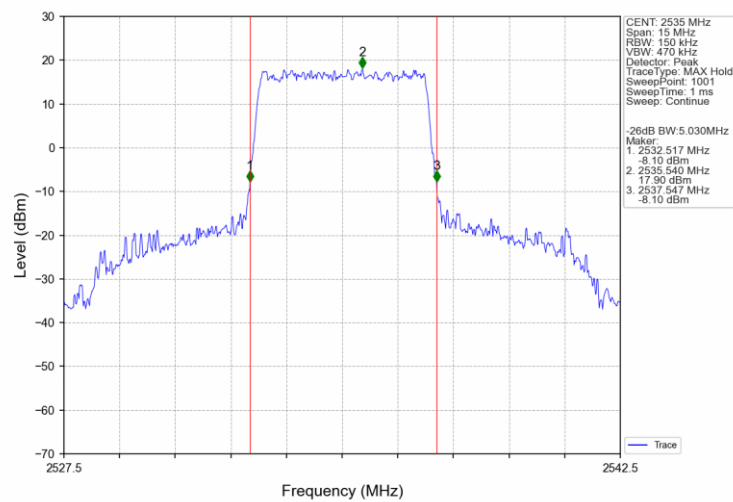


4.2.2 Band7_XDB

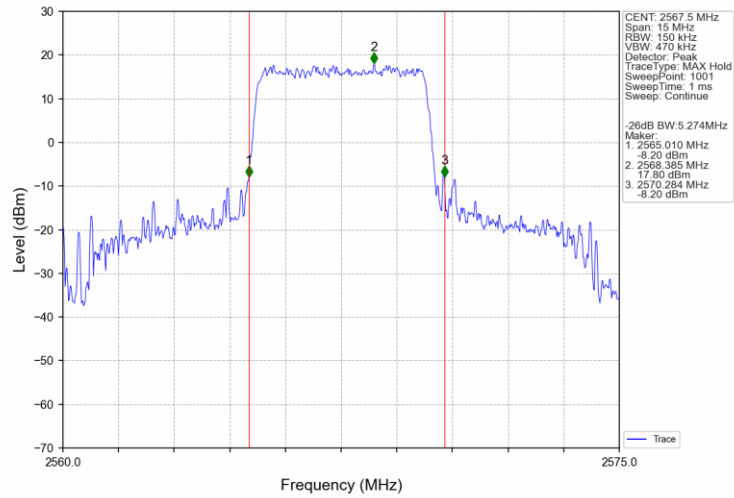
Band7_5MHz_QPSK_LCH_2502.5MHz_RB_25_0_NTNV



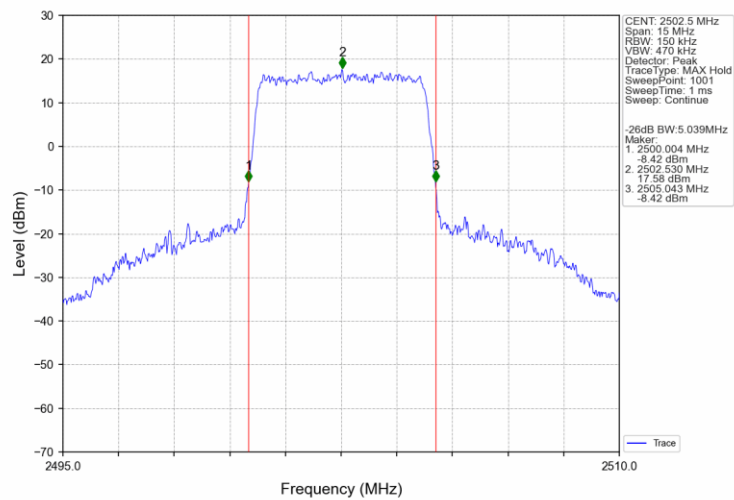
Band7_5MHz_QPSK_MCH_2535MHz_RB_25_0_NTNV



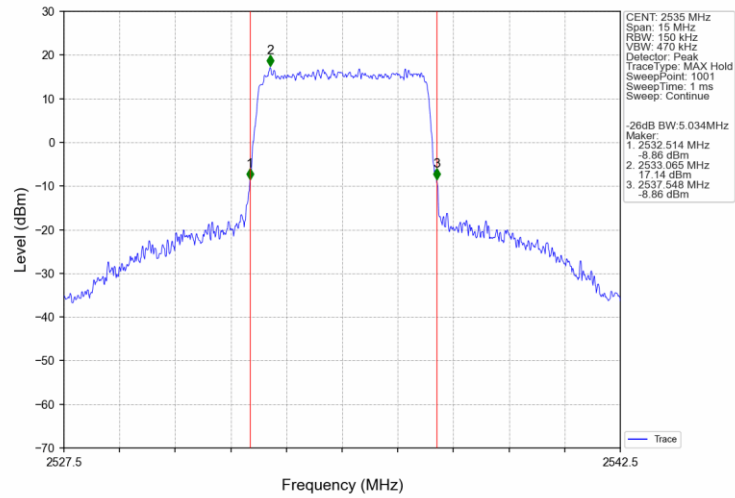
Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTV



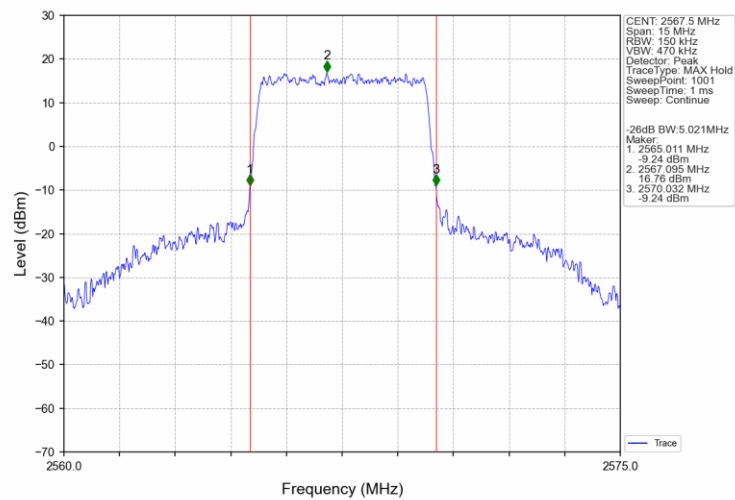
Band7 5MHz 16QAM LCH 2502.5MHz RB 25 0 NTV



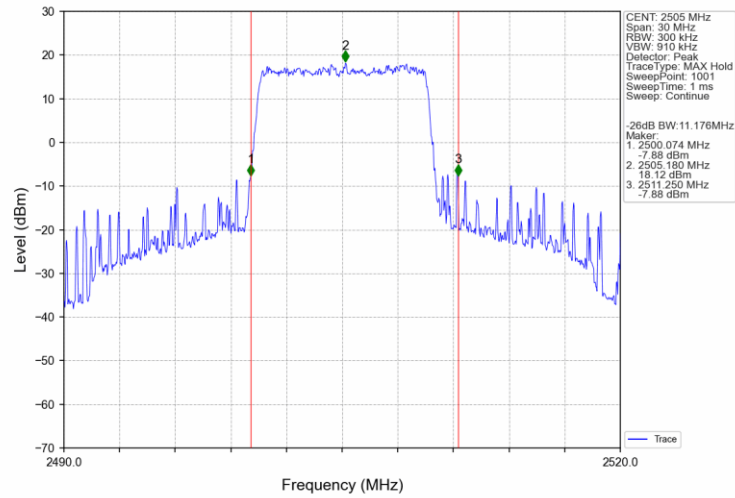
Band7 5MHz 16QAM MCH 2535MHz RB 25 0 NTNV



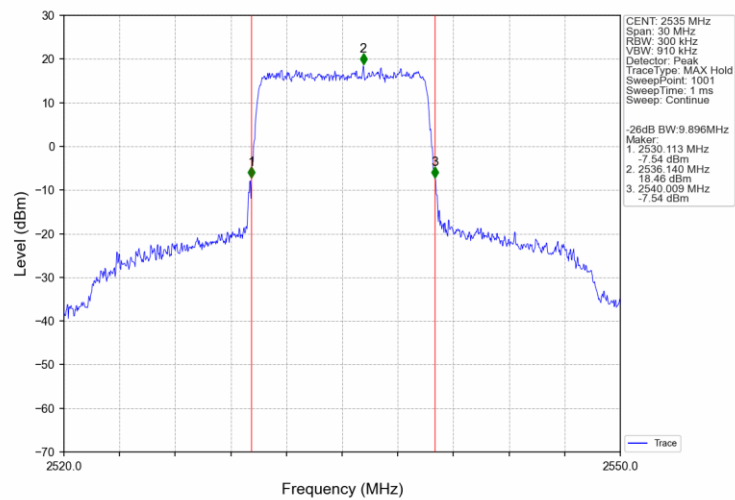
Band7 5MHz 16QAM HCH 2567.5MHz RB 25 0 NTNV



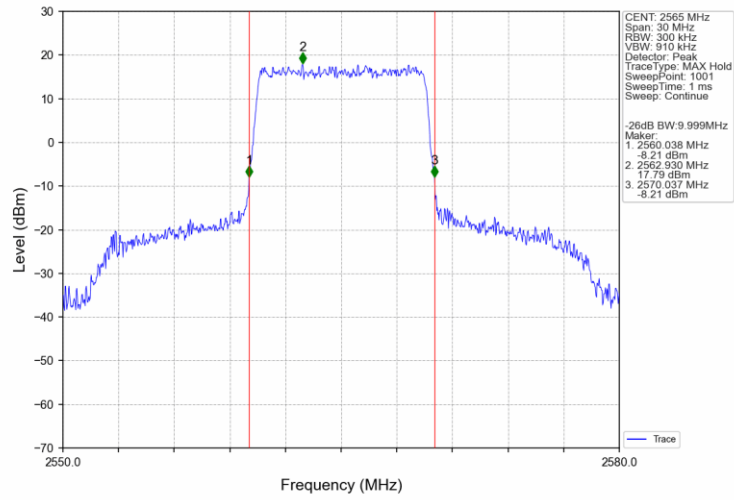
Band7 10MHz QPSK LCH 2505MHz RB 50 0 NTNV



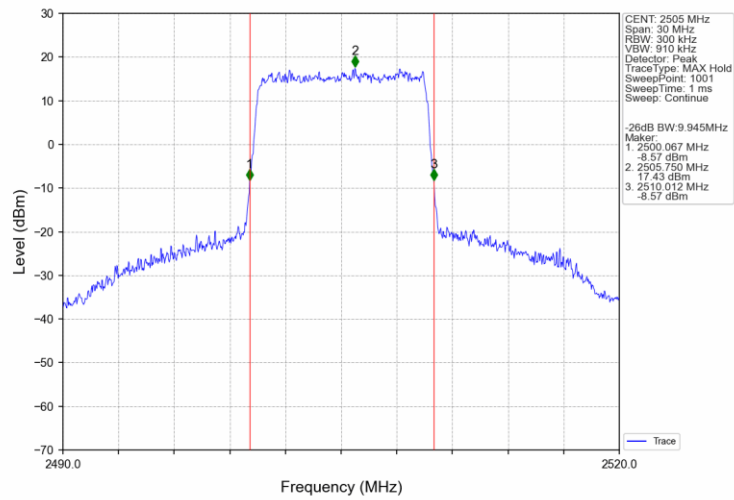
Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTNV



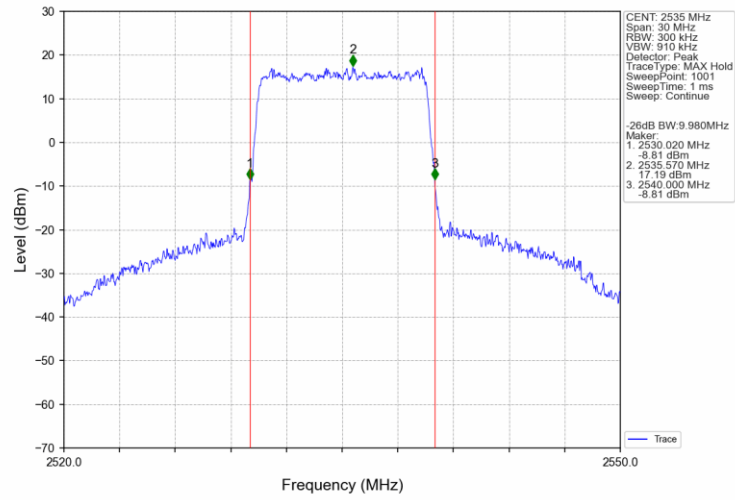
Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTN



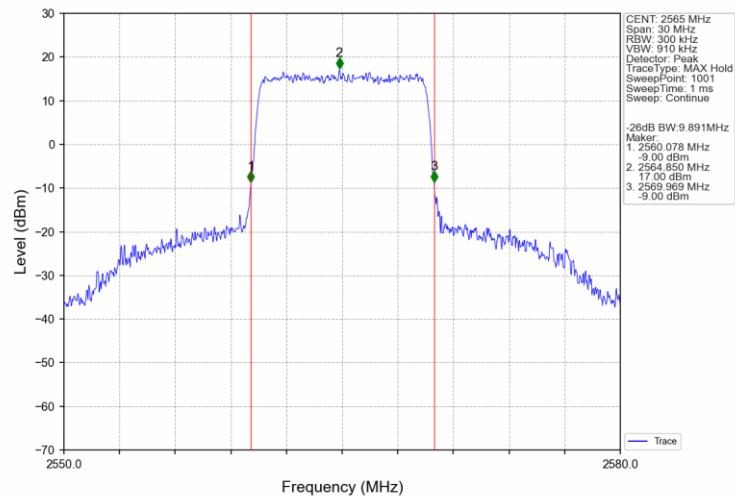
Band7 10MHz 16QAM LCH 2505MHz RB 50 0 NTN



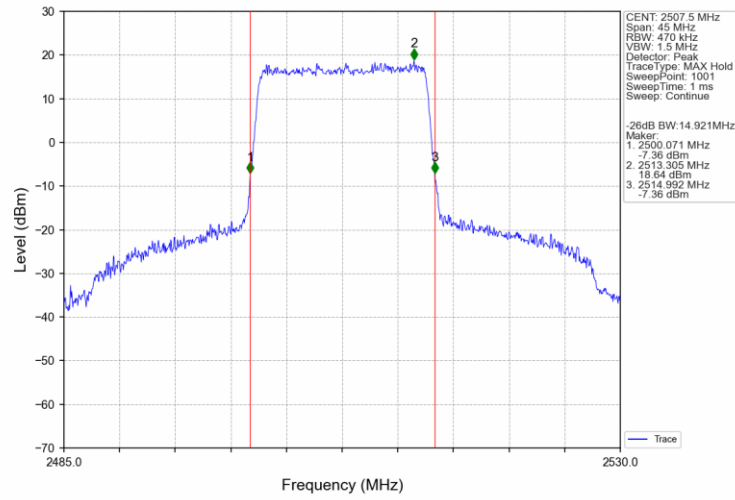
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



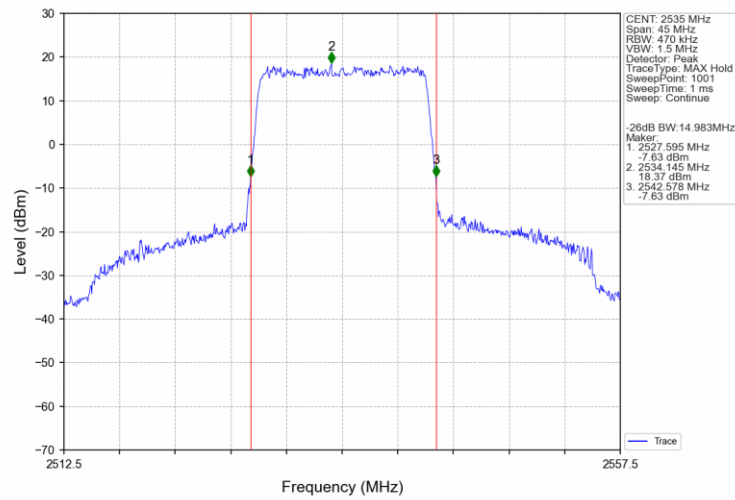
Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



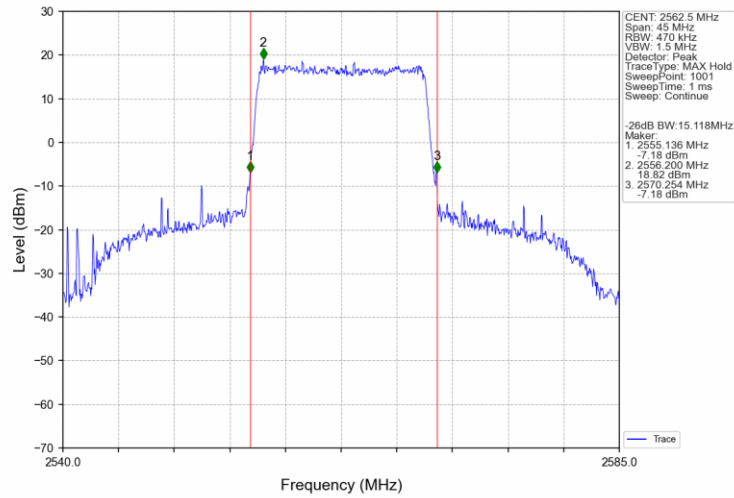
Band7 15MHz QPSK LCH 2507.5MHz RB 75 0 NTNV



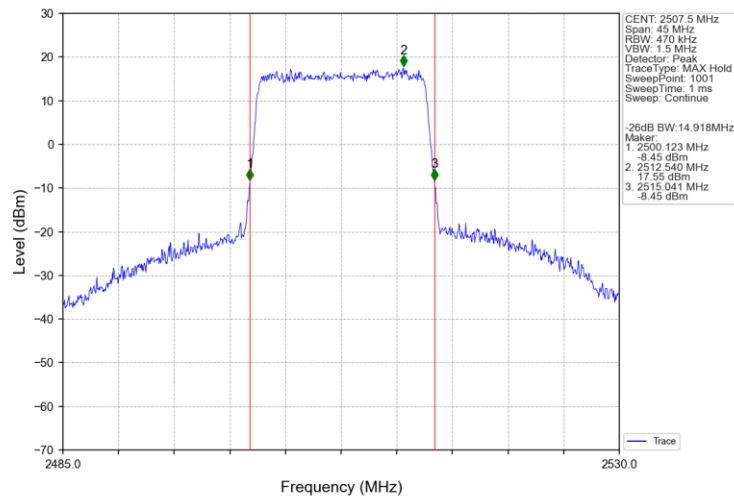
Band7 15MHz QPSK MCH 2535MHz RB 75 0 NTNV



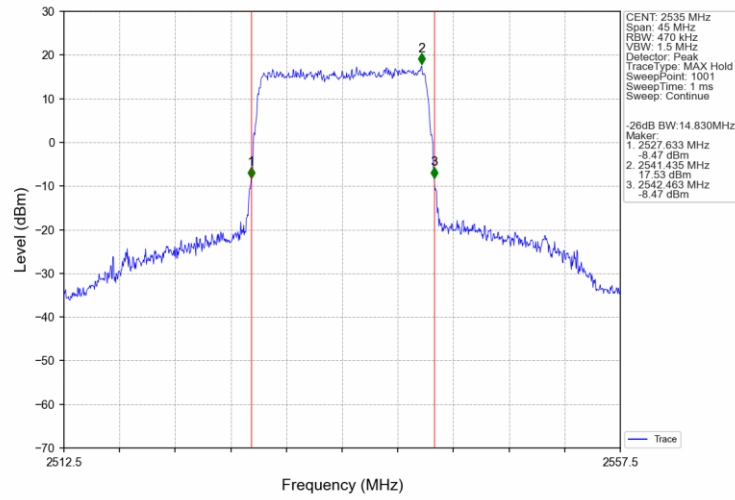
Band7 15MHz QPSK HCH 2562.5MHz RB 75 0 NTNV



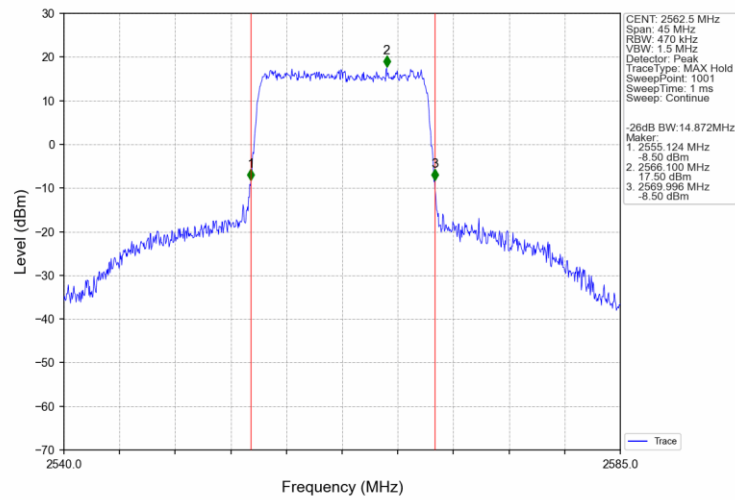
Band7 15MHz 16QAM LCH 2507.5MHz RB 75 0 NTNV



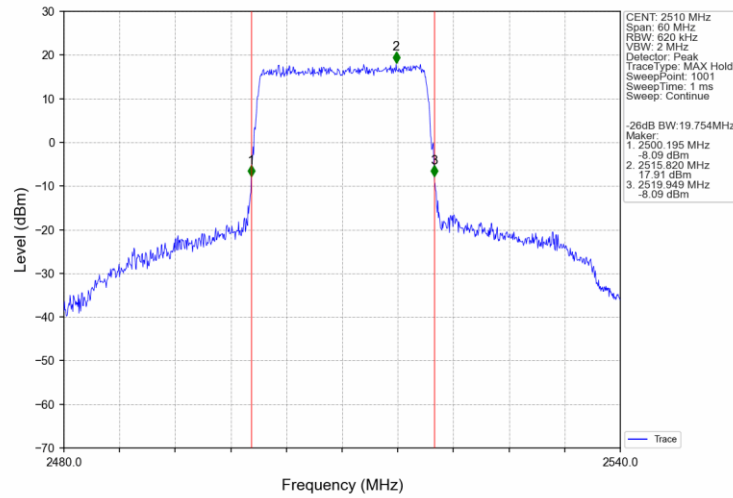
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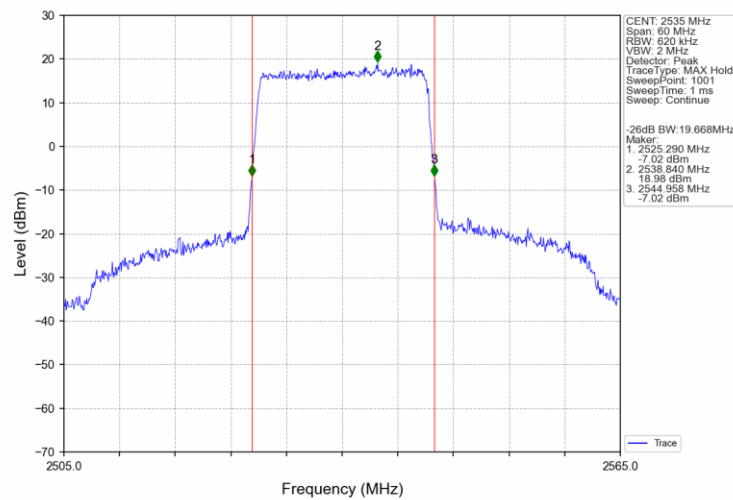
Band7 15MHz 16QAM HCH 2562.5MHz RB 75 0 NTNV



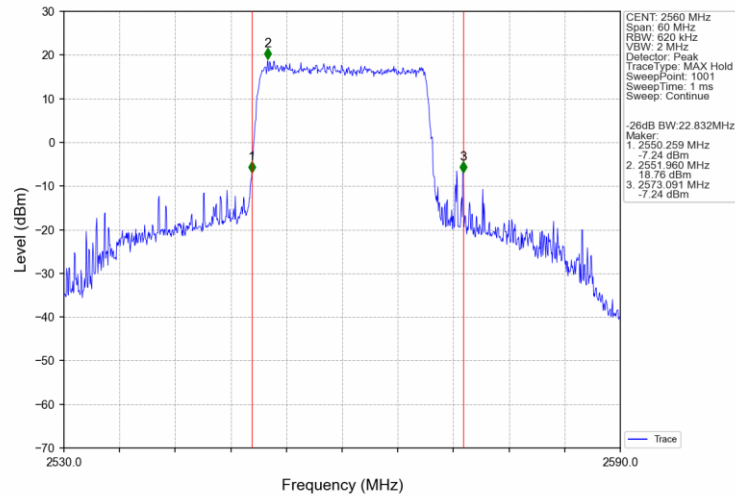
Band7 20MHz QPSK LCH 2510MHz RB 100 0 NTV



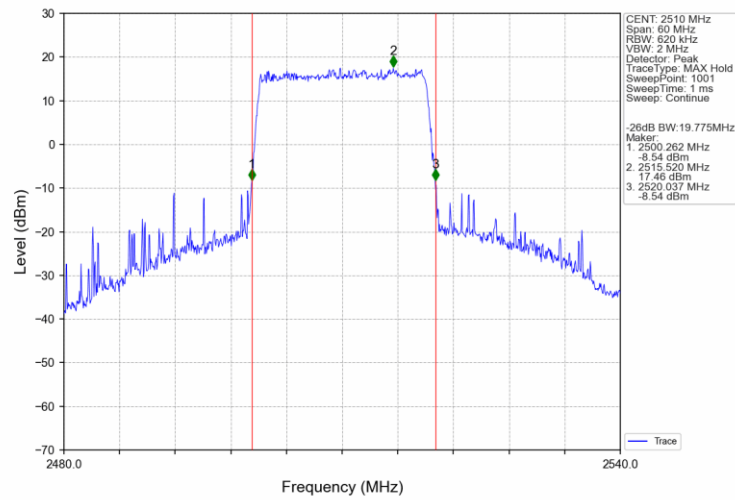
Band7 20MHz QPSK MCH 2535MHz RB 100 0 NTV



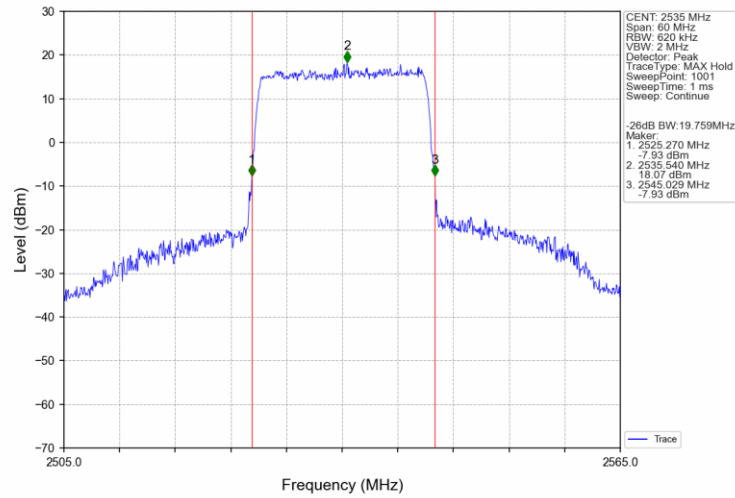
Band7 20MHz QPSK HCH 2560MHz RB 100 0 NTV



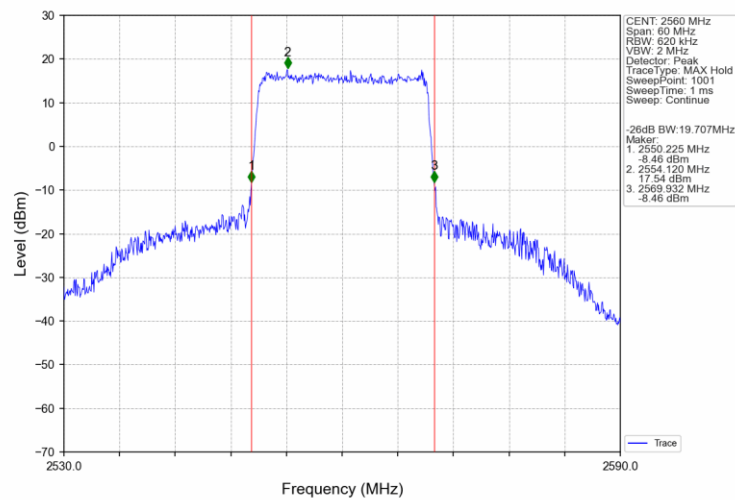
Band7 20MHz 16QAM LCH 2510MHz RB 100 0 NTV



Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTN



Band7 20MHz 16QAM HCH 2560MHz RB 100 0 NTN



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	25	0	5.28	<=13	Pass
	2535	25	0	5.36	<=13	Pass
	2567.5	25	0	5.19	<=13	Pass
16QAM	2502.5	25	0	6.05	<=13	Pass
	2535	25	0	6.03	<=13	Pass
	2567.5	25	0	5.84	<=13	Pass

5.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	50	0	5.36	<=13	Pass
	2535	50	0	5.32	<=13	Pass
	2565	50	0	5.27	<=13	Pass
16QAM	2505	50	0	6.04	<=13	Pass
	2535	50	0	6.05	<=13	Pass
	2565	50	0	5.98	<=13	Pass

5.1.3 B7_15MHz

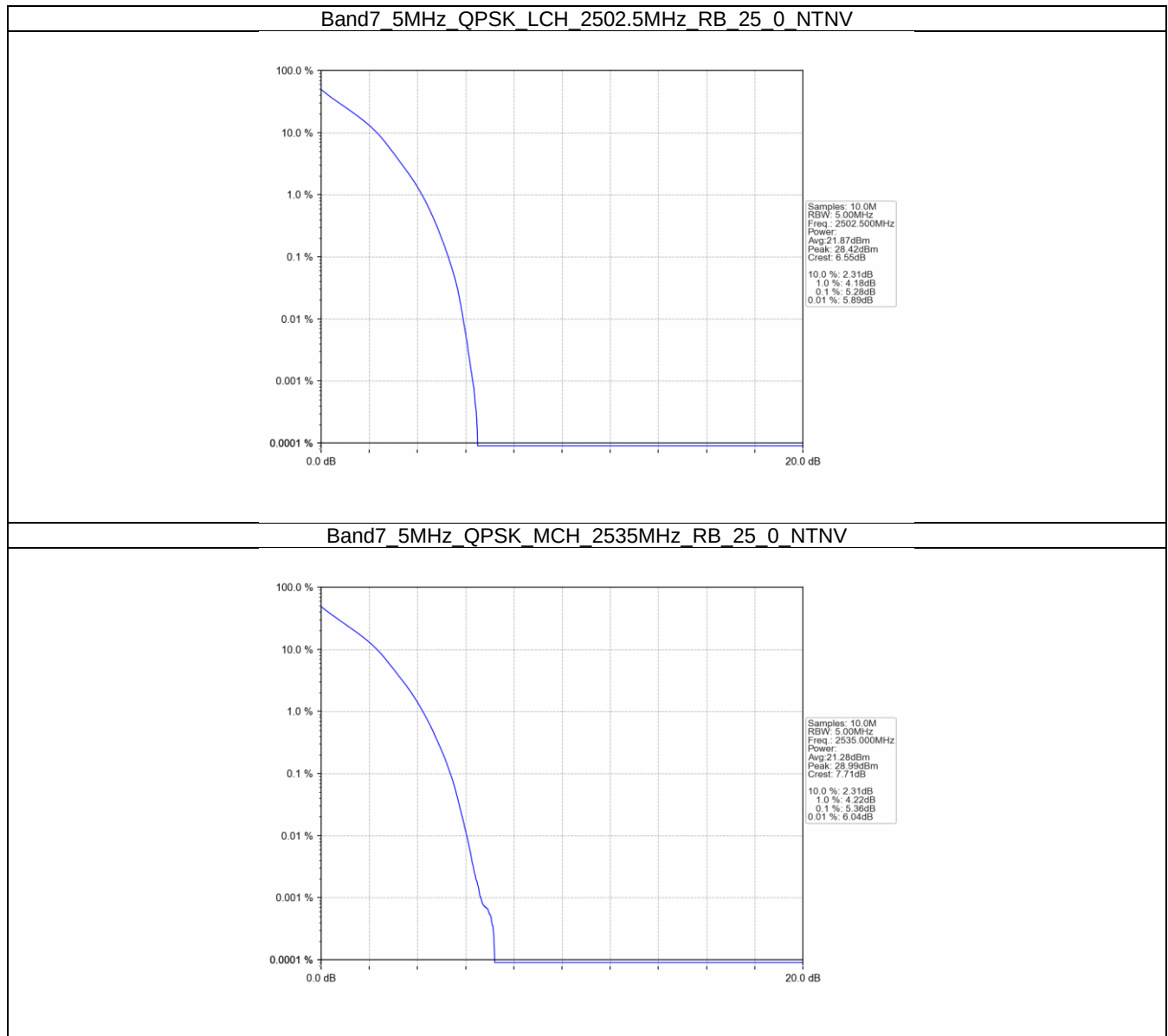
Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	75	0	5.08	<=13	Pass
	2535	75	0	5.11	<=13	Pass
	2562.5	75	0	5.08	<=13	Pass
16QAM	2507.5	75	0	6.07	<=13	Pass
	2535	75	0	6.04	<=13	Pass
	2562.5	75	0	6.03	<=13	Pass

5.1.4 B7_20MHz

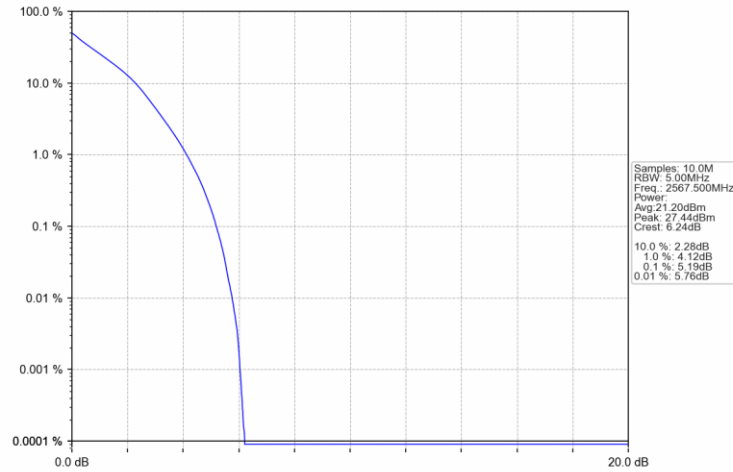
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	5.66	<=13	Pass
	2535	100	0	5.62	<=13	Pass
	2560	100	0	5.66	<=13	Pass
16QAM	2510	100	0	6.53	<=13	Pass
	2535	100	0	6.54	<=13	Pass
	2560	100	0	6.50	<=13	Pass

5.2 Test Graph

5.2.1 B7_5MHz



Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTV



Band7 5MHz 16QAM LCH 2502.5MHz RB 25 0 NTV

